



Performance Data Sheet

VSC5532BNA

General Information

| | | | |
|-----------------------|--------------------------|---------------------------------|-------------|
| Model | VSC5532BNA | Refrigerant | R-410A |
| Test Condition | ARI | Performance Test Voltage | 230V ~ 60HZ |
| Return Gas | 18.3°C (65°F) RETURN GAS | Motor Type | PSC |

Performance Information

| Evap Temp (°F) | Condensing Temperature (°F) | | | | | | | |
|----------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| -15 | Btu/h | 10100 | 8690 | | | | | |
| | Watts | 1760 | 1920 | | | | | |
| | Amps | 7.76 | 8.83 | | | | | |
| | Lb/h | 123 | 111 | | | | | |
| -10 | Btu/h | 12300 | 10800 | 9520 | | | | |
| | Watts | 1790 | 1950 | 2170 | | | | |
| | Amps | 7.76 | 8.80 | 10.0 | | | | |
| | Lb/h | 148 | 137 | 127 | | | | |
| -5 | Btu/h | 14400 | 13000 | 11700 | 10300 | | | |
| | Watts | 1800 | 1970 | 2190 | 2470 | | | |
| | Amps | 7.74 | 8.78 | 9.95 | 11.3 | | | |
| | Lb/h | 172 | 163 | 154 | 144 | | | |
| 0 | Btu/h | 16700 | 15200 | 13900 | 12500 | 11000 | | |
| | Watts | 1800 | 1980 | 2200 | 2480 | 2830 | | |
| | Amps | 7.72 | 8.74 | 9.90 | 11.2 | 12.8 | | |
| | Lb/h | 198 | 189 | 181 | 172 | 161 | | |
| 5 | Btu/h | 19000 | 17500 | 16100 | 14700 | 13100 | | |
| | Watts | 1800 | 1980 | 2210 | 2490 | 2830 | | |
| | Amps | 7.70 | 8.71 | 9.85 | 11.2 | 12.7 | | |
| | Lb/h | 224 | 216 | 209 | 201 | 190 | | |
| 10 | Btu/h | 21400 | 19900 | 18400 | 17000 | 15300 | 13500 | 11300 |
| | Watts | 1790 | 1980 | 2210 | 2500 | 2830 | 3240 | 3710 |
| | Amps | 7.66 | 8.66 | 9.79 | 11.1 | 12.6 | 14.5 | 16.6 |
| | Lb/h | 251 | 244 | 237 | 230 | 221 | 207 | 187 |
| 15 | Btu/h | 24000 | 22400 | 20900 | 19300 | 17600 | 15700 | 13400 |
| | Watts | 1770 | 1970 | 2210 | 2490 | 2830 | 3230 | 3700 |
| | Amps | 7.61 | 8.61 | 9.74 | 11.0 | 12.6 | 14.4 | 16.5 |
| | Lb/h | 279 | 272 | 267 | 261 | 252 | 239 | 220 |
| 20 | Btu/h | 26800 | 25100 | 23500 | 21800 | 20000 | 18000 | 15600 |
| | Watts | 1740 | 1950 | 2200 | 2480 | 2820 | 3220 | 3670 |
| | Amps | 7.55 | 8.56 | 9.68 | 11.0 | 12.5 | 14.2 | 16.4 |
| | Lb/h | 309 | 303 | 298 | 293 | 285 | 272 | 254 |

| | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| 25 | Btu/h | 29700 | 27900 | 26200 | 24500 | 22600 | 20400 | 18000 |
| | Watts | 1720 | 1930 | 2180 | 2470 | 2810 | 3200 | 3650 |
| | Amps | 7.48 | 8.49 | 9.61 | 10.9 | 12.4 | 14.1 | 16.2 |
| | Lb/h | 341 | 335 | 331 | 326 | 319 | 307 | 290 |
| 30 | Btu/h | 32900 | 31000 | 29200 | 27300 | 25300 | 23000 | 20400 |
| | Watts | 1680 | 1910 | 2160 | 2460 | 2790 | 3180 | 3620 |
| | Amps | 7.39 | 8.41 | 9.54 | 10.8 | 12.3 | 14.1 | 16.1 |
| | Lb/h | 375 | 370 | 366 | 362 | 355 | 344 | 327 |
| 35 | Btu/h | 36300 | 34300 | 32400 | 30400 | 28200 | 25800 | 23000 |
| | Watts | 1640 | 1880 | 2140 | 2440 | 2770 | 3160 | 3590 |
| | Amps | 7.29 | 8.33 | 9.46 | 10.7 | 12.2 | 14.0 | 16.0 |
| | Lb/h | 411 | 407 | 403 | 399 | 393 | 382 | 366 |
| 40 | Btu/h | 40000 | 37900 | 35800 | 33700 | 31400 | 28800 | 25900 |
| | Watts | 1600 | 1850 | 2120 | 2420 | 2750 | 3130 | 3560 |
| | Amps | 7.17 | 8.23 | 9.37 | 10.7 | 12.1 | 13.9 | 15.9 |
| | Lb/h | 451 | 447 | 444 | 440 | 434 | 424 | 408 |
| 45 | Btu/h | 43900 | 41700 | 39500 | 37200 | 34700 | 32000 | 28900 |
| | Watts | 1560 | 1810 | 2090 | 2390 | 2730 | 3110 | 3530 |
| | Amps | 7.04 | 8.12 | 9.27 | 10.6 | 12.1 | 13.8 | 15.8 |
| | Lb/h | 494 | 490 | 487 | 483 | 478 | 468 | 452 |
| 50 | Btu/h | 48300 | 45900 | 43500 | 41000 | 38400 | 35500 | 32200 |
| | Watts | 1510 | 1780 | 2060 | 2370 | 2710 | 3080 | 3500 |
| | Amps | 6.89 | 7.99 | 9.17 | 10.5 | 12.0 | 13.7 | 15.7 |
| | Lb/h | 541 | 537 | 534 | 530 | 525 | 515 | 499 |
| 55 | Btu/h | 52900 | 50400 | 47800 | 45200 | 42400 | 39300 | 35800 |
| | Watts | 1460 | 1740 | 2030 | 2340 | 2680 | 3060 | 3470 |
| | Amps | 6.72 | 7.85 | 9.05 | 10.4 | 11.9 | 13.6 | 15.6 |
| | Lb/h | 591 | 587 | 584 | 581 | 575 | 566 | 550 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|--------------|---------------|---------------|---------------|---------------|
| C1 | 4.234618E+04 | 1.235540E+03 | -1.981953E+00 | 5.058142E+02 |
| C2 | 4.513071E+02 | -3.451914E+01 | -3.093062E-02 | 3.914937E+00 |
| C3 | -5.914261E+02 | 6.424921E+00 | 2.034427E-01 | -8.584683E+00 |
| C4 | 3.829402E+00 | -2.140015E-01 | -7.747224E-04 | 2.827945E-02 |
| C5 | 5.934862E-01 | 6.870362E-01 | 8.076896E-04 | 1.161897E-02 |
| C6 | 4.644377E+00 | -9.000911E-02 | -1.746353E-03 | 8.238567E-02 |
| C7 | 3.626700E-02 | 8.048881E-04 | -1.276248E-06 | 4.388313E-04 |
| C8 | -2.640234E-02 | 7.342304E-04 | 7.501233E-06 | -1.908059E-04 |
| C9 | -6.794133E-03 | -3.201267E-03 | -6.002558E-06 | 4.181010E-05 |
| C10 | -1.578138E-02 | 1.225630E-03 | 9.000331E-06 | -2.901164E-04 |

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature